

## ABSTRACT OF THE DISCLOSURE

The present invention provides an electrochemical gas sensor that can restrict to the extent possible interference errors. The electrochemical gas sensor draws a gas to be measured into an electrolyte solution through a permeable membrane and outputs an electrical signal corresponding to the concentration of said gas that is measured, with a permeable membrane 4 constituting a working electrode 4' being formed from a mixture of a carbon black powder and a fluorine resin powder, and an electrode catalyst layer 13 formed on the side of the permeable membrane 4 in contact with an electrolyte solution